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#3

SEQUENCE LISTING

<110> Biovation Limited  
<120> Protein Isolation and Analysis  
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<140> PCT/GB00/01015  
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 <223> The 'Xaa' at location 7 stands for Glu, Asp, Gly, Ala, or Val.

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Thr

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1 5 10 15

nns acc ttc ggt ggt ggt acc aag ctt gg

77

Xaa Thr Phe Gly Gly Gly Thr Lys Leu

20 25

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<222> (13)..(13)

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<223> The 'Xaa' at location 14 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

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Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon,  
Tyr, Trp, Cys, or Phe.

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<222> (16)..(16)

<223> The 'Xaa' at location 16 stands for Lys, Asn, Arg, Ser, Thr, Met,  
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Tyr, Trp, Cys, or Phe.

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taaacagcga cgtcttc 77

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s=g,c

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Tyr Trp Gly Gln Gly Thr Pro  
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yr, Trp, Cys, or Phe.

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> The 'Xaa' at location 6 stands for Lys, Asn, Arg, Ser, Thr, Met,  
Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, T  
yr, Trp, Cys, or Phe.

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> The 'Xaa' at location 7 stands for Lys, Asn, Arg, Ser, Thr, Met,  
Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, T  
yr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> The 'Xaa' at location 8 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> The 'Xaa' at location 9 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> The 'Xaa' at location 10 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> The 'Xaa' at location 11 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> The 'Xaa' at location 12 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> The 'Xaa' at location 13 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> The 'Xaa' at location 14 stands for Lys, Asn, Arg, Ser, Thr, Met, Ile, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, a stop codon, Tyr, Trp, Cys, or Phe.

<220>  
 <223> Oligonucleotide for CDR3 heavy chain; positive strand

<220>  
 <221> misc\_feature  
 <222> (14)..(43)  
 <223> n=a,t,g,c  
 s=g,c

<400> 62

Tyr Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Ala  
1 5 10 15

Tyr Trp Gly Gln Gly Thr Pro  
20

<210> 63

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide for CDR3 heavy chain; negative strand

<220>

<221> misc\_feature

<222> (28)..(57)

<223> n=a,t,g,c

s=g,c

<400> 63

aggggtcccc tgacccagct aagcgaasnn snnsnnsnns nnsnnsnnsn nsnnnsnnacg 60

cgcgcgtagtag 70

<210> 64

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Single tag; forward oligonucleotide

<220>

<221> CDS

<222> (1)..(54)

<223>

<220>

<221> misc\_feature

<222> (12)..(12)

<223> y=t,c

<220>

<221> misc\_feature

<222> (15)..(15)

<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (18)..(18)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (22)..(22)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (25)..(25)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (28)..(28)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (32)..(32)  
<223> k=t,g

<220>  
<221> misc\_feature  
<222> (34)..(34)  
<223> v=a,g,c

<220>  
<221> misc\_feature  
<222> (38)..(38)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (39)..(39)  
<223> v=a,g,c

<220>  
<221> misc\_feature



<222> (41)..(41)  
<223> n=a,t,g,c

<400> 64  
gcg ctg cag gay ggn cgn nac ncc ngg ntg tkc vag gnv cnt tag ctc 48  
Ala Leu Gln Asp Gly Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu  
1 5 10 15  
  
gag cta 54  
Glu Leu

<210> 65  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
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<223> The 'Xaa' at location 7 stands for Asn, Asp, His, or Tyr.

<220>  
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<222> (8)..(8)  
<223> The 'Xaa' at location 8 stands for Thr, Ala, Pro, or Ser.

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> The 'Xaa' at location 9 stands for Arg, Gly, or Trp.

<220>  
<221> misc\_feature  
<222> (10)..(10)  
<223> The 'Xaa' at location 10 stands for Met, Val, or Leu.

<220>  
<221> misc\_feature  
<222> (11)..(11)  
<223> The 'Xaa' at location 11 stands for Cys, or Phe.

<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> The 'Xaa' at location 12 stands for Lys, Glu, or Gln.

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> The 'Xaa' at location 13 stands for Glu, Asp, Gly, Ala, or Val.

<220>  
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<222> (14)..(14)

<223> The 'Xaa' at location 14 stands for His, Arg, Pro, or Leu.

<220>

<223> Single tag; forward oligonucleotide

<220>

<221> misc\_feature

<222> (12)..(12)

<223> y=t,c

<220>

<221> misc\_feature

<222> (15)..(15)

<223> n=a,t,g,c

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<221> misc\_feature

<222> (18)..(18)

<223> n=a,t,g,c

<220>

<221> misc\_feature

<222> (19)..(19)

<223> n=a,t,g,c

<220>

<221> misc\_feature

<222> (22)..(22)

<223> n=a,t,g,c

<220>

<221> misc\_feature

<222> (25)..(25)

<223> n=a,t,g,c

<220>

<221> misc\_feature

<222> (28)..(28)

<223> n=a,t,g,c

<220>

<221> misc\_feature

<222> (32)..(32)

<223> k=t,g

<220>

<221> misc\_feature

<222> (34)..(34)

<223> v=a,g,c

<220>

<221> misc\_feature

<222> (38)..(38)

<223> n=a,t,g,c

<220>

<221> misc\_feature

<222> (39)..(39)  
<223> v=a,g,c

<220>  
<221> misc\_feature  
<222> (41)..(41)  
<223> n=a,t,g,c

<400> 65

Ala Leu Gln Asp Gly Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10

<210> 66  
<211> 54  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Single tag; reverse oligonucleotide

<220>  
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<222> (14)..(14)  
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<220>  
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<222> (16)..(16)  
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<220>  
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<222> (17)..(17)  
<223> n=a,t,g,c

<220>  
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<222> (21)..(21)  
<223> b=g,c,t

<220>  
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<222> (23)..(23)  
<223> m=a,c,

<220>  
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<222> (27)..(27)  
<223> n=a,t,g,c

<220>  
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<222> (30)..(30)  
<223> n=a,t,g,c

<220>  
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<222> (33)..(33)  
<223> n=a,t,g,c

<220>  
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<222> (36)..(36)  
<223> n=a,t,g,c

<400> 66  
tagctcgagc taangbncct bgmacanccn ggngtnccgc ccgtcctgca gcgc

54

<210> 67  
<211> 87  
<212> DNA  
<213> Artificial Sequence

<220>  
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<220>  
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<222> (12)..(12)  
<223> y=t,c

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<222> (15)..(15)  
<223> n=a,t,g,c

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<222> (18)..(19)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature

<222> (22)..(22)  
<223> n=a,t,g,c

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<222> (25)..(25)  
<223> n=a,t,g,c

<220>  
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<222> (28)..(28)  
<223> n=a,t,g,c

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<222> (32)..(32)  
<223> k=t,g

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<222> (34)..(34)  
<223> v=a,g,c

<220>  
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<222> (38)..(38)  
<223> n=a,t,g,c

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<222> (39)..(39)  
<223> v=a,g,c

<220>  
<221> misc\_feature  
<222> (41)..(41)  
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<222> (45)..(45)  
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<222> (48)..(48)  
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<222> (55)..(55)  
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<220>  
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<220>  
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<223> k=g,t

<220>  
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<222> (67)..(67)  
<223> v=a,g,c

<220>  
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<222> (71)..(71)  
<223> n=a,t,g,c

<220>  
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<222> (72)..(72)  
<223> v=a,g,c

<220>  
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<222> (74)..(74)  
<223> n=a,t,g,c

<400> 67  
gcg ctg cag gay ggn cgn nac ncc ngg ntg tkc vag gnv cnt gay ggn

Ala Leu Gln Asp Gly Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Gly  
 1 5 10 15

cgn nac ncc ngg ntg tkc vag gnv cnt tag ctc gag cta  
 Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Glu Leu  
 20 25

87

<210> 68  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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 <223> The 'Xaa' at location 7 stands for Asn, Asp, His, or Tyr.

<220>  
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 <222> (8)..(8)  
 <223> The 'Xaa' at location 8 stands for Thr, Ala, Pro, or Ser.

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> The 'Xaa' at location 9 stands for Arg, Gly, or Trp.

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> The 'Xaa' at location 10 stands for Met, Val, or Leu.

<220>  
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 <222> (11)..(11)  
 <223> The 'Xaa' at location 11 stands for Cys, or Phe.

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> The 'Xaa' at location 12 stands for Lys, Glu, or Gln.

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> The 'Xaa' at location 13 stands for Glu, Asp, Gly, Ala, or Val.

<220>  
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 <222> (14)..(14)  
 <223> The 'Xaa' at location 14 stands for His, Arg, Pro, or Leu.

<220>  
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 <222> (18)..(18)  
 <223> The 'Xaa' at location 18 stands for Asn, Asp, His, or Tyr.

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> The 'Xaa' at location 19 stands for Thr, Ala, Pro, or Ser.

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> The 'Xaa' at location 20 stands for Arg, Gly, or Trp.

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> The 'Xaa' at location 21 stands for Met, Val, or Leu.

<220>  
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<222> (22)..(22)  
<223> The 'Xaa' at location 22 stands for Cys, or Phe.

<220>  
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<222> (23)..(23)  
<223> The 'Xaa' at location 23 stands for Lys, Glu, or Gln.

<220>  
<221> misc\_feature  
<222> (24)..(24)  
<223> The 'Xaa' at location 24 stands for Glu, Asp, Gly, Ala, or Val.

<220>  
<221> misc\_feature  
<222> (25)..(25)  
<223> The 'Xaa' at location 25 stands for His, Arg, Pro, or Leu.

<220>  
<223> Double tag; forward oligonucleotide

<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> y=t,c

<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> n=a,t,g,c

<220>  
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<222> (18)..(19)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (22)..(22)



<223> n=a,t,g,c

<220>  
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<222> (25)..(25)  
<223> n=a,t,g,c

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<222> (28)..(28)  
<223> n=a,t,g,c

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<222> (32)..(32)  
<223> k=t,g

<220>  
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<222> (34)..(34)  
<223> v=a,g,c

<220>  
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<222> (38)..(38)  
<223> n=a,t,g,c

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<222> (39)..(39)  
<223> v=a,g,c

<220>  
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<222> (41)..(41)  
<223> n=a,t,g,c

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<222> (45)..(45)  
<223> y=t,c

<220>  
<221> misc\_feature  
<222> (48)..(48)  
<223> n=a,t,g,c

<220>  
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<222> (51)..(52)  
<223> n=a,t,g,c

<220>  
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<222> (55)..(55)  
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<220>  
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<222> (58)..(58)  
<223> n=a,t,g,c

<220>  
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<222> (61)..(61)  
<223> n=a,t,g,c

<220>  
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<222> (65)..(65)  
<223> k=g,t

<220>  
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<222> (67)..(67)  
<223> v=a,g,c

<220>  
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<222> (71)..(71)  
<223> n=a,t,g,c

<220>  
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<222> (72)..(72)  
<223> v=a,g,c

<220>  
<221> misc\_feature  
<222> (74)..(74)  
<223> n=a,t,g,c

<400> 68

Ala Leu Gln Asp Gly Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Gly  
1 5 10 15

Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25

<210> 69  
<211> 87  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Double tag; reverse oligonucleotide

<220>  
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<220>  
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<220>  
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<222> (17)..(17)  
<223> n=a,t,g,c

<220>  
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<222> (21)..(21)  
<223> b=t,g,c

<220>  
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<222> (23)..(23)  
<223> m=a,c

<220>  
<221> misc\_feature  
<222> (27)..(27)  
<223> n=a,t,g,c

<220>  
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<223> n=a,t,g,c

<220>  
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<223> n=a,t,g,c

<220>  
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<222> (36)..(36)  
<223> n=a,t,g,c

<220>  
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<223> n=a,t,g,c

<220>

<221> misc\_feature  
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<223> b=t,g,c

<220>  
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<222> (50)..(50)  
<223> n=a,t,g,c

<220>  
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<222> (54)..(54)  
<223> b=t,g,c

<220>  
<221> misc\_feature  
<222> (56)..(56)  
<223> m=a,c

<220>  
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<222> (60)..(60)  
<223> n=a,t,g,c

<220>  
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<222> (63)..(63)  
<223> n=a,t,g,c

<220>  
<221> misc\_feature  
<222> (66)..(66)  
<223> n=a,t,g,c

<220>  
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<222> (69)..(69)  
<223> n=a,t,g,c

<400> 69  
tagctcgagc taangbncct bgmacanccn ggngtnccgc ccgtcangbn cctbgmacan 60  
ccngngtnc cgcccgtcct gcagcgc 87